

SCM Series
SMD Common Mode Inductor
Size 9035



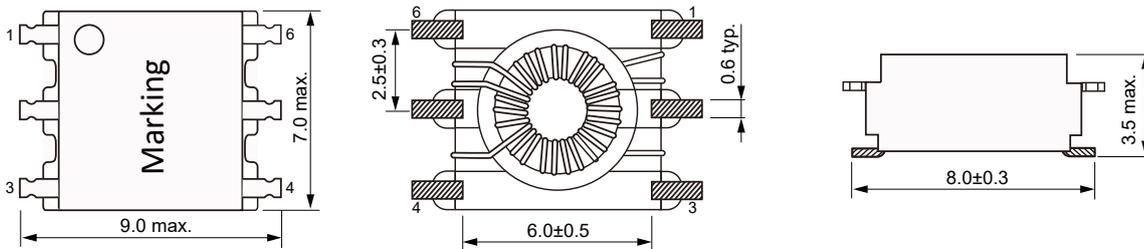
FEATURES

- High current capability up to 450 mA
- Rated voltage: 80 VDC (42 VAC)
- Flammability corresponding to UL 94 V-0
- Operating temperature -40~+125 °C
- Quantity:1500pcs

APPLICATIONS

- USB/CAN/FireWire etc.
- Signal and sensor lines
- Power supply systems
- Suppression of common mode noise

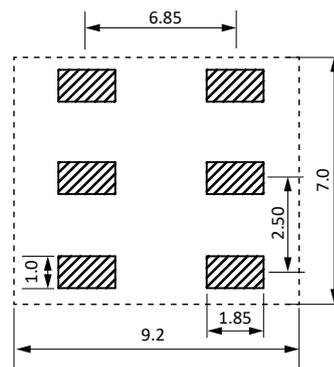
Dimensions: [mm]



Schematic:



Land Pattern: [mm]

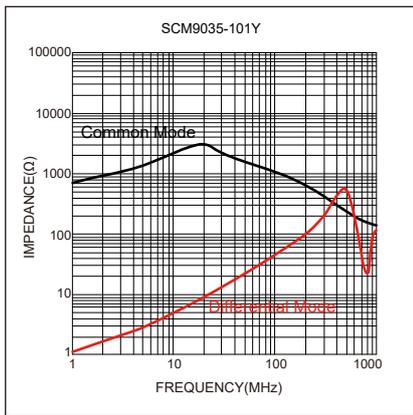


Electrical Properties:

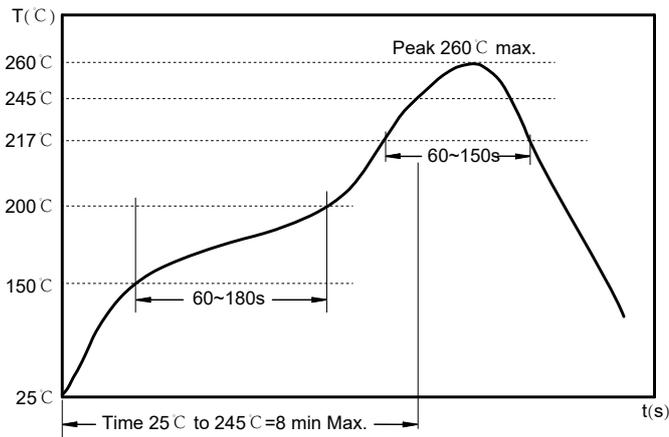
Part No	Inductance @ 100KHz/0.1V (μH) 1-6=2-5=3-4	Tolerance	DC Resistance Max. (Ω) 1-6=2-5=3-4	Rated Current Max. (mA) 1-6=2-5=3-4	Insulation Test Voltage Max.	Leakage Inductance @1MHz/1mA Typ. (nH)	Rated Voltage Typ. (V)	Peak Impedance Typ. (Ω)
SCM9035-101Y	100	+50%/-30%	0.45	450	500 V(AC)	94	80	3000

Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}C$

Typical Electrical Characteristics:



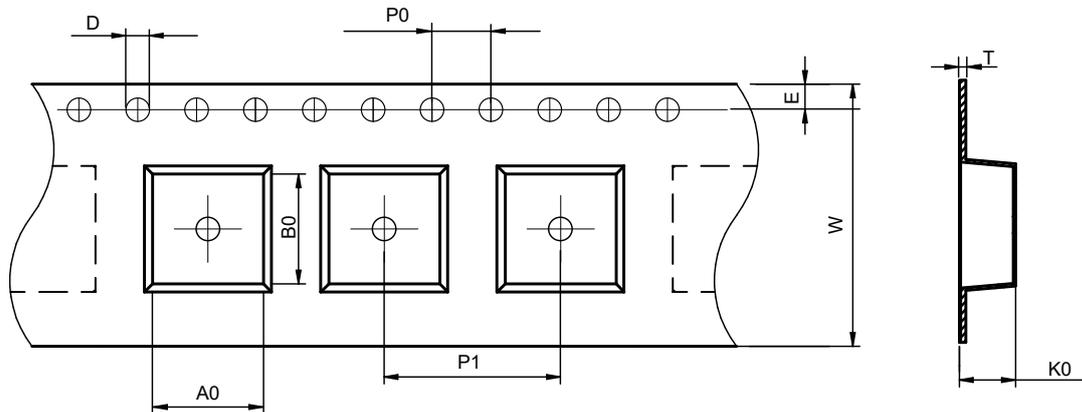
Soldering Reflow:



Preheat condition: 150 ~200°C / 60~180 sec.
 Allowed time above 217°C: 60~150 sec.
 Max temperature: 260°C.
 Max time at max temperature: 10 sec.

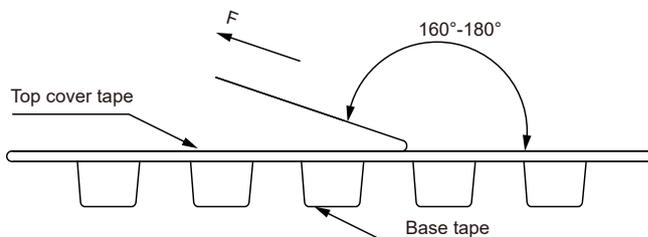
Packaging Information:

Tape Dimension:



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
SCM9035	6.90±0.1	9.30±0.1	1.5±0.1	4.0±0.1	12.0±0.1	16.0±0.3	3.8±0.1	1.75±0.1	0.40±0.05

Peel force of top cover tape:

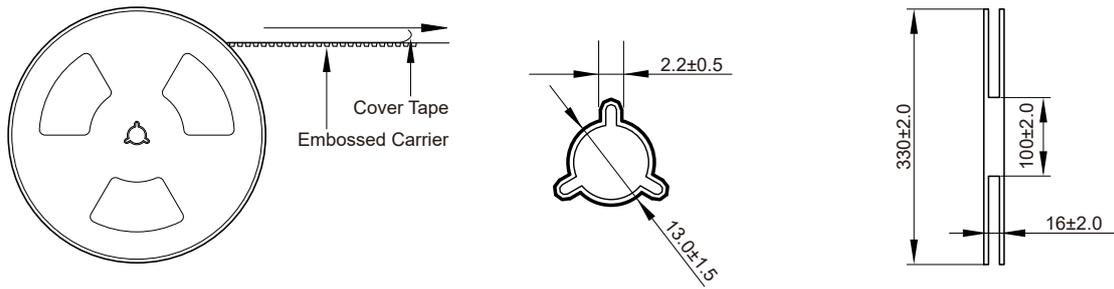


The peel force of top cover tape shall be between 0.2 to 1.17 N

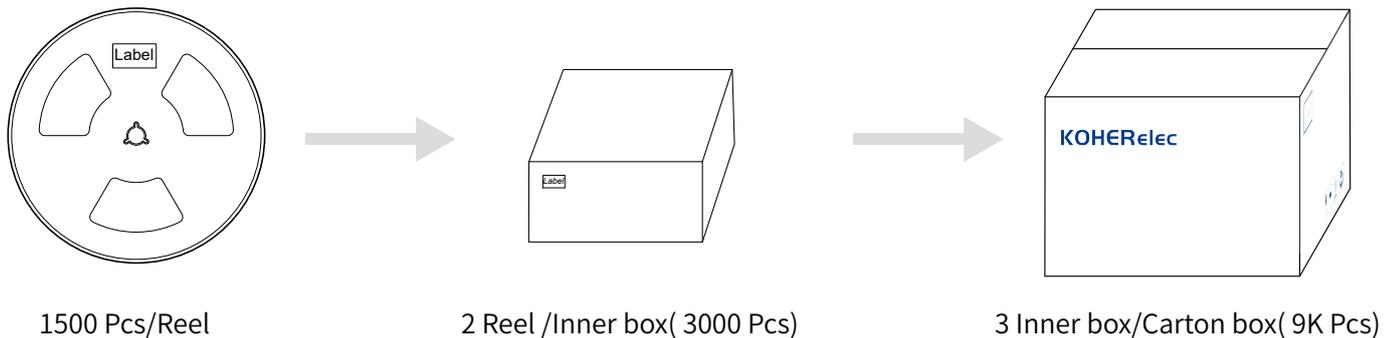
Product Marking:

Marking	Printing (Inductance)
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Reel Dimension: [mm]



Packaging Quantity:



Cautions and Warnings:

Storage Conditions:

- The storage period is within 12 months after the completion of production. Be sure to follow the storage conditions (temperature: -5 to 35°C, humidity: 75% RH Max). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- Product should not be exposed to environment with high temperature, high humidity, dust, corrosive gas and etc.
- Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- Please always handle products carefully to prevent any damage caused by dropping down or inappropriate removing.

Operation Instructions:

- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- Generally, Koher might not be familiar with either customer's specific application or actual requests as customer does. As a result customer shall be responsible for checking and confirming whether Koher product with the performance described in the product specification is suitable for using in customer's particular application or not.